

A Quick Look at Live, Attenuated Influenza Vaccine, Quadrivalent (LAIV4)

Indications for Use and Schedule

- LAIV4 (intranasal) is for persons 2 years through 49 years who:
 - Are healthy and are not pregnant
- Begin vaccinating as soon as flu vaccine is available and continue throughout the flu season (until vaccine is expired)

Key Points

- Both LAIV and IIV have demonstrated to be effective in children and adults
- There is no preference between LAIV4 over IIV3 or IIV4 for any age group for the 2015-16 flu season, including children aged 2-8 years
 - Vaccinate with an age appropriate IIV dose or LAIV4 dose
- Some children aged 6 months through 8 years may require 2 doses of seasonal flu vaccine in 2015-16 to best protect them
- Persons aged 9 years and older only need 1 dose of flu vaccine, regardless of previous flu vaccination history

LAIV4 Administration

- Administer intranasal 0.2 mL
 - Spray 0.1 mL into each nostril as indicated by dose-divider clip on sprayer
 - Use 0.2 mL dose for all ages 2-49 years
- Can be given with all other vaccines
- If LAIV4 is not given on the same day as other live vaccines (MMR, VAR, and MMRV), must be separated by 28 days

Storage and Handling

- Store in the refrigerator unit at 35°-46°F (2-8° C)
- Do NOT freeze and keep in original box with lid on
- Do NOT use expired vaccine
- LAIV4 expiration dates differ from other flu vaccine expiration dates
- Stand-alone purpose built storage units are preferred

Information on 2-Dose Influenza Vaccine Pediatric Rule for Children aged 6 Months through 8 Years

- Children aged 6 months through 8 years who received at least 2 or more doses of seasonal flu vaccine (IIV3, IIV4, LAIV3, or LAIV4) prior to July 1, 2015, only need 1 dose of 2015-16 flu vaccine
- If a child has not received at least 2 seasonal flu doses (IIV3, IIV4, LAIV3 or LAIV4) before July 1, 2015, administer 2 doses of flu vaccine, separated by 4 weeks
 - Doses of monovalent H1N1 vaccine do not count towards assessment; it is not considered a seasonal flu vaccine
- For further information refer to: "Who Needs 2 Doses of 2015-16 Seasonal Influenza Vaccine?" at www.michigan.gov/flu

Contraindications (Persons who should not receive LAIV4)

- Serious allergic reaction (e.g. anaphylaxis) to a previous dose of flu vaccine or one of its components
- Aged less than 2 years or older than 49 years
- Pregnant
- Immunosuppression from any cause
- Persons with egg allergy**
 - Children aged 2-4 years with a history of asthma or recurrent wheezing within the past 12 months
 - Children receiving long-term aspirin therapy
 - Received flu antivirals within past 48 hours

Precautions (In certain circumstances persons may receive LAIV4)

- Aged 5 years and older with asthma
- Moderate or severe acute illness with or without fever
- History of Guillain-Barré Syndrome (GBS) within 6 weeks of a previous influenza vaccination
- Persons who care for severely immunosuppressed persons requiring a protective environment should not receive LAIV, or avoid contact for 7 days after receiving LAIV
- Medical conditions that put them at higher risk for complications due to influenza, e.g., chronic pulmonary, cardio, renal, hepatic, neurologic, hematologic or metabolic disorders (diabetes)

****Note:** For persons who report an egg allergy: give Recombinant Influenza Vaccine, trivalent (RIV3) to those aged 18 years and older if available **or** determine if it is safe to give Inactivated Influenza Vaccine, trivalent (IIV3) or quadrivalent (IIV4)

- Refer to: "Influenza Vaccine Screening Algorithm for Persons who Report an Egg Allergy" available at www.michigan.gov/flu

Further points to consider

- Healthcare personnel 49 years of age or younger may receive LAIV, except those who have contact with severely immunosuppressed persons requiring a protective environment. If they receive a dose of LAIV they should avoid contact for 7 days after receiving LAIV
- Healthcare personnel who are pregnant or have chronic medical conditions other than severe immunosuppression can administer LAIV4
- LAIV4 should not be given with antiviral medications; give IIV. For further information: www.cdc.gov/flu
- LAIV4 may be given on the same day as a TB test (PPD). If not same day, wait at least 4 weeks after LAIV4 to administer the PPD test
- Document LAIV4 doses in Michigan Care Improvement Registry (MCIR) on the "Add Imm" screen under "Vaccine" as:
 - "Influenza LAIV4 (FluMist)" and on the vaccine administration record & record card as "LAIV4"
- Use the current LAIV4 VIS, including information about MCIR. The Michigan VIS is posted at www.michigan.gov/immunize
- For additional information on Inactivated Influenza Vaccine refer to: "A Quick Look at Using Inactivated Influenza Vaccines (trivalent and quadrivalent): IIV3, IIV4, IIV4 ID, IIV3 High Dose, posted at www.michigan.gov/immunize (under Health Care Professionals/Providers)

Publicly purchased flu vaccine can be administered to eligible children 6 months through 18 years of age, through the VFC program in private providers' offices. Eligible children include those who are uninsured, underinsured, Medicaid eligible, Native American or Alaskan Natives.

Contact your local health department or visit MI Department of Health and Human Services for further information & additional forms regarding flu vaccination, at: <http://www.michigan.gov/flu> or <http://www.cdc.gov/vaccines/> or <http://www.cdc.gov/mmwr>

August 21, 2015